

## References

### Ginseng, Panax

- The Review of Natural Products by Facts and Comparisons. St. Louis, MO: Wolters Kluwer Co., 1999. **6**
- Leung AY, Foster S. Encyclopedia of Common Natural Ingredients Used in Food, Drugs and Cosmetics. 2nd ed. New York, NY: John Wiley & Sons, 1996. **11**
- McGuffin M, Hobbs C, Upton R, Goldberg A, eds. American Herbal Products Association's Botanical Safety Handbook. Boca Raton, FL: CRC Press, LLC 1997. **12**
- Robbers JE, Speedie MK, Tyler VE. Pharmacognosy and Pharmacobiotechnology. Baltimore, MD: Williams & Wilkins, 1996. **13**
- Hanafy MS, Hatem ME. Studies on the antimicrobial activity of Black seed seed (black cumin). J Ethnopharmacol 1991;34:275-8. [View abstract](#). **243**
- Foster S, Tyler VE. Tyler's Honest Herbal, 4th ed., Binghamton, NY: Haworth Herbal Press, 1999. **515**
- Scaglione F, Cattaneo G, Alessandria M, Cogo R. Efficacy and safety of the standardized Ginseng extract G115 for potentiating vaccination against the influenza syndrome and protection against the common cold. Drugs Exp Clin Res 1996;22:65-72. [View abstract](#). **589**
- Palmer BV, Montgomery AC, Monteiro JC, et al. Gin Seng and mastalgia [letter]. BMJ 1978;1:1284. [View abstract](#). **590**
- Hopkins MP, Androff L, Benninghoff AS. Ginseng face cream and unexplained vaginal bleeding. Am J Obstet Gynecol 1988;159:1121-2. [View abstract](#). **591**
- Greenspan EM. Ginseng and vaginal bleeding [letter]. JAMA 1983;249:2018. [View abstract](#). **592**
- Gonzalez-Seijo JC, Ramos YM, Lastra I. Manic episode and ginseng: Report of a possible case. J Clin Psychopharmacol 1995;15:447-8. [View abstract](#). **594**
- Ryu S, Chien Y. Ginseng-associated cerebral arteritis. Neurology 1995;45:829-30. [View abstract](#). **595**
- Dega H, Laporte JL, Frances C, et al. Ginseng as a cause of Stevens-Johnson syndrome. Lancet 1996;347:1344. [View abstract](#). **596**
- Brown R. Potential interactions of herbal medicines with antipsychotics, antidepressants and hypnotics. Eur J Herbal Med 1997;3:25-8. **597**
- Hamid S, Rojter S, Vierling J. Protracted cholestatic hepatitis after the use of Prostata. Ann Intern Med 1997;127:169-70. [View abstract](#). **598**
- Shader RI, Greenblatt DJ. Phenelzine and the dream machine-ramblings and reflections. J Clin Psychopharmacol 1985;5:65. [View abstract](#). **617**
- Jones BD, Runikis AM. Interaction of ginseng with phenelzine. J Clin Psychopharmacol 1987;7:201-2. [View abstract](#). **618**
- Janetzky K, Morreale AP. Probable interaction between warfarin and ginseng. Am J Health Syst Pharm 1997;54:692-3. [View abstract](#). **619**

- Vilstrup H, Gluud C, Hardt F, et al. Branched chain enriched amino acid versus glucose treatment of hepatic encephalopathy. A double-blind study of 65 patients with cirrhosis. *J Hepatol* 1990;10:291-6. [View abstract](#). **689**
- Becker BN. Ginseng-induced diuretic resistance. *JAMA* 1996;276:606-7. [View abstract](#). **770**
- Gurley BJ, Gardner SF, Hubbard MA. Clinical assessment of potential cytochrome P450-mediated herb-drug interactions. *AAPS Ann Mtg & Expo Indianapolis, IN: 2000; Oct 29 - Nov 2:presentation #3460*. **1303**
- Vogler BK, Pittler MH, Ernst E. The efficacy of ginseng. A systemic review of randomized clinical trials. *Eur J Clin Pharmacol* 1999;55:567-75. [View abstract](#). **1427**
- Park HJ, Lee JH, Song YB, Park KH. Effects of dietary supplementation of lipophilic fraction from *Panax ginseng* on cGMP and cAMP in rat platelets and on blood coagulation. *Biol Pharm Bull* 1996;19:1434-9. [View abstract](#). **1522**
- Yun TK, Choi SY. Non-organ specific cancer prevention of ginseng: a prospective study in Korea. *Int J Epidemiol* 1998;27:359-64. [View abstract](#). **2063**
- Sorensen H, Sonne J. A double-masked study of the effects of ginseng on cognitive functions. *Curr Ther Res* 1996;57:959-68. **2064**
- Zhu M, Chan KW, Ng LS, et al. Possible influences of ginseng on the pharmacodynamics of warfarin in rats. *J Pharm Pharmacol* 1999;51:175-80. [View abstract](#). **2531**
- Choi HK, Jung GW, Moon KH, et al. Clinical study of SS-Cream in patients with lifelong premature ejaculation. *Urology* 2000;55:257-61. [View abstract](#). **2537**
- Song Z, Johansen HK, Faber V, et al. Ginseng treatment reduces bacterial load and lung pathology in chronic *Pseudomonas aeruginosa* pneumonia in rats. *Antimicrob Agents Chemother* 1997;41:961-4. [View abstract](#). **3095**
- Song Z, Kharazmi A, Wu H, et al. Effects of Ginseng treatment on neutrophil chemiluminescence and immunoglobulin G subclasses in a rat model of chronic *Pseudomonas aeruginosa* pneumonia. *Clin Diagn Lab Immunol* 1998;5:882-7. [View abstract](#). **3096**
- Lewis R, Wake G, Court G, et al. Non-ginsenoside nicotinic activity in ginseng species. *Phytother Res* 1999;13:59-64. [View abstract](#). **3109**
- Belogortseva NI, Yoon JY, Kim KH. Inhibition of *Helicobacter pylori* hemagglutination by polysaccharide fractions from roots of *Panax ginseng*. *Planta Med* 2000;66:217-20. [View abstract](#). **3121**
- Shin HR, Kim JY, Yun TK, et al. The cancer-preventive potential of *Panax ginseng*: a review of human and experimental evidence. *Cancer Causes Control* 2000;11:565-76. [View abstract](#). **3122**
- Hiai S, Yokoyama H, Oura H, et al. Stimulation of pituitary-adrenocortical system by ginseng saponin. *Endocrinol Jpn* 1979;26:661-5. [View abstract](#). **3256**
- Kase Y, Saitoh K, Ishige A, et al. Mechanisms by which Hange-shashin-to reduces prostaglandin E2 levels. *Biol Pharm Bull* 1998;21:1277-81. [View abstract](#). **3257**
- Siegel RK. Ginseng Abuse Syndrome. *JAMA* 1979;241:1614-5. **3353**
- 3354**

- Palop-Larrea V, Gonzalez-Perales JL, Catalan-Oliver C, et al. Metrorrhagia and ginseng. *Ann Pharmacother* 2000;34:1347-8. [View abstract.](#) **3863**
- Tode T, Kikuchi Y, Hirata J, et al. Effect of Korean red ginseng on psychological functions in patients with severe climacteric syndromes. *Int J Gynaecol Obstet* 1999;67:169-74. [View abstract.](#) **4225**
- Sotaniemi EA, Haapakoski E, Rautio A. Ginseng therapy in non-insulin-dependent diabetic patients. *Diabetes Care* 1995;18:1373-5. [View abstract.](#) **4227**
- Lee BM, Lee SK, Kim HS. Inhibition of oxidative DNA damage, 8-OHdG, and carbonyl contents in smokers treated with antioxidants (vitamin E, vitamin C, beta-carotene and red ginseng). *Cancer Lett* 1998;132:219-27. [View abstract.](#) **4230**
- Allen JD, McLung J, Nelson AG, Welsch M. Ginseng supplementation does not enhance healthy young adults' peak aerobic exercise performance. *J Am Coll Nutr* 1998;17:462-6. [View abstract.](#) **4231**
- Engels HJ, Wirth JC. No ergogenic effects of ginseng (*Panax ginseng* C.A. Meyer) during grades maximal aerobic exercise. *J Am Diet Assoc* 1997;97:1110-5. [View abstract.](#) **4243**
- Ding DZ, Shen TK, Cui YZ. Effects of red ginseng on the congestive heart failure and its mechanism. *Chung Kuo Chung Hsi I Chieh Ho Tsa Chih* 1995;15:325-7. [View abstract.](#) **4322**
- Caron MF, Hotsko AL, Robertson S, et al. Electrocardiographic and hemodynamic effects of *Panax ginseng*. *Ann Pharmacother* 2002;36:758-63. [View abstract.](#) **6180**
- Eagon PK, Elm MS, Hunter DS, et al. Medicinal herbs: modulation of estrogen action. Era of Hope Mtg, Dept Defense; Breast Cancer Res Prog, Atlanta, GA 2000;Jun 8-11. **6254**
- Caso MA, Vargas RR, Salas VA, Begona IC. Double-blind study of a multivitamin complex supplemented with ginseng extract. *Drugs Exp Clin Res* 1996;22:323-9. [View abstract.](#) **6461**
- Vuksan V, Stavro MP, Sievenpiper JL, et al. Similar postprandial glycemic reductions with escalation of dose and administration time of American ginseng in type 2 diabetes. *Diabetes Care* 2000;23:1221-6. [View abstract.](#) **8591**
- Scholey AB, Kennedy DO. Acute, dose-dependent cognitive effects of *Ginkgo biloba*, *Panax ginseng* and their combination in healthy young volunteers: differential interactions with cognitive demand. *Hum Psychopharmacol* 2002;17:35-44. [View abstract.](#) **8600**
- Dharmananda S. The nature of ginseng: traditional use, modern use, and the question of dosage. *Herbalgram* 2002;54:34-51. **8601**
- Ellis JM, Reddy P. Effects of *Panax ginseng* on quality of life. *Ann Pharmacother* 2002;36:375-9. [View abstract.](#) **8602**
- Kim YK, Guo Q, Packer L. Free radical scavenging activity of red ginseng aqueous extracts. *Toxicology* 2002;172:149-56. [View abstract.](#) **8603**
- Ng TB, Wang H. Panaxagin, a new protein from Chinese ginseng possesses anti-fungal, anti-viral, translation-inhibiting and ribonuclease activities. *Life Sci* 2001;68:739-49. [View abstract.](#) **8604**
- Cheng TO. *Panax* (ginseng) is not a panacea. *Arch Intern Med* 2000;160:3329. [View abstract.](#) **8605**
- Pan SJ, Ding Z, Ivy JL. Ginseng's effects on glucose tolerance and mRNA profiles in a animal model of Type II diabetes. *Altern Ther* 2001;7:S26. **8813**

- Hong B, Ji YH, Hong JH, et al. A double-blind crossover study evaluating the efficacy of Korean red ginseng in patients with erectile dysfunction: a preliminary report. *J Urol* 2002;168:2070-3.. [View abstract.](#) **8814**
- Scaglione F, Weiser K, Alessandria M. Effects of the standardized ginseng extract G115 (Reg.) in patients with chronic bronchitis: A nonblinded, randomized, comparative pilot study. *Clin Drug Invest* 2001;21:41-5. **9759**
- Wesnes KA, Ward T, McGinty A, Petrini O. The memory enhancing effects of a Ginkgo biloba/Panax ginseng combination in healthy middle-aged volunteers. *Psychopharmacology (Berl)* 2000;152:353-61.. [View abstract.](#) **10249**
- Suzuki H, Rhim JH. Effect of samgyetang feeding on plasma lipids, glucose, glycosylated hemoglobin, and stress-induced gastric ulcers in mice. *Nutr Res* 2000;20:575-84. **10314**
- Cardinal BJ, Engels HJ. Ginseng does not enhance psychological well-being in healthy, young adults: results of a double-blind, placebo-controlled, randomized clinical trial. *J Am Diet Assoc* 2001;101:655-60.. [View abstract.](#) **10447**
- Chan LY, Chiu PY, Lau TK. An in-vitro study of ginsenoside Rb(1)-induced teratogenicity using a whole rat embryo culture model. *Hum Reprod* 2003;18:2166-8.. [View abstract.](#) **10725**
- See DM, Broumand N, Sahl L, Tilles JG. In vitro effects of echinacea and ginseng on natural killer and antibody-dependent cell cytotoxicity in healthy subjects and chronic fatigue syndrome or acquired immunodeficiency syndrome patients. *Immunopharmacology* 1997;35:229-35. [View abstract.](#) **10847**
- Gurley BJ, Gardner SF, Hubbard MA, et al. Cytochrome P450 phenotypic ratios for predicting herb-drug interactions in humans. *Clin Pharmacol Ther* 2002;72:276-87.. [View abstract.](#) **10981**
- Wiklund IK, Mattsson LA, Lindgren R, et al. Effects of a standardized ginseng extract on quality of life and physiological parameters in symptomatic postmenopausal women: a double-blind, placebo-controlled trial. *Int J Clin Pharmacol Res* 1999;19:89-99.. [View abstract.](#) **10982**
- Hammond TG, Whitworth JA. Adverse reactions to ginseng [letter]. *Med J Aust* 1981;1:492.. [View abstract.](#) **10983**
- Punnonen R, Lukola A. Oestrogen-like effect of ginseng. *Br Med J* 1980;281:1110.. [View abstract.](#) **10984**
- Lee YJ, Jin YR, Lim WC, et al. Ginsenoside-Rb1 acts as a weak phytoestrogen in MCF-7 human breast cancer cells. *Arch Pharm Res* 2003;26:58-63.. [View abstract.](#) **11005**
- Moon J, Yu SJ, Kim HS, Sohn J. Induction of G(1) cell cycle arrest and p27(KIP1) increase by panaxydol isolated from Panax ginseng. *Biochem Pharmacol* 2000;59:1109-16.. [View abstract.](#) **11006**
- Keum YS, Park KK, Lee JM, et al. Antioxidant and anti-tumor promoting activities of the methanol extract of heat-processed ginseng. *Cancer Lett* 2000;150:41-8.. [View abstract.](#) **11007**
- Tamaoki J, Nakata J, Kawatani K, et al. Ginsenoside-induced relaxation of human bronchial smooth muscle via release of nitric oxide. *Br J Pharmacol* 2000;130:1859-64. [View abstract.](#) **11153**
- Xu QF, Fang XL, Chen DF. Pharmacokinetics and bioavailability of ginsenoside Rb1 and Rg1 from Panax notoginseng in rats. *J Ethnopharmacol* 2003;84:187-92. [View abstract.](#) **11355**

- McBride BF, Karapanos AK, Krudysz A, et al. Electrocardiographic and hemodynamic effects of a multicomponent dietary supplement containing ephedra and caffeine: a randomized controlled trial. *JAMA* 2004;291:216-21. [View abstract](#). **11890**
- Jiang X, Williams KM, Liauw WS, et al. Effect of St John's wort and ginseng on the pharmacokinetics and pharmacodynamics of warfarin in healthy subjects. *Br J Clin Pharmacol* 2004;57:592-9. [View abstract](#). **11891**
- Yun YP, Do JH, Ko SR, et al. Effects of Korean red ginseng and its mixed prescription on the high molecular weight dextran-induced blood stasis in rats and human platelet aggregation. *J Ethnopharmacol* 2001;77:259-64. [View abstract](#). **11971**
- Wiwanikit V, Taungjarwinai W. A case report of suspected ginseng allergy. *Medscape General Medicine* 6 (3), 2004. Available at: [www.medscape.com/viewarticle/482833](http://www.medscape.com/viewarticle/482833) (Accessed 17 September 2004). **12191**
- Lee FC, Ko JH, Park JK, Lee JS. Effects of Panax ginseng on blood alcohol clearance in man. *Clin Exp Pharmacol Physiol* 1987;14:543-6. [View abstract](#). **12536**
- Sievenpiper JL, Arnason JT, Leiter LA, Vuksan V. Decreasing, null and increasing effects of eight popular types of ginseng on acute postprandial glycemic indices in healthy humans: the role of ginsenosides. *J Am Coll Nutr* 2004;23:248-58. [View abstract](#). **12537**
- Cho J, Park W, Lee S, et al. Ginsenoside-Rb1 from Panax ginseng C.A. Meyer activates estrogen receptor-alpha and -beta, independent of ligand binding. *J Clin Endocrinol Metab* 2004;89:3510-5. [View abstract](#). **12538**
- Kim SH, Park KS. Effects of Panax ginseng extract on lipid metabolism in humans. *Pharmacol Res* 2003;48:511-3. [View abstract](#). **13030**
- Kabalak AA, Soyol OB, Urfalioglu A, et al. Menometrorrhagia and tachyarrhythmia after using oral and topical ginseng. *J Womens Health (Larchmt)* 2004;13:830-3. [View abstract](#). **14466**
- Cui Y, Shu XO, Gao YT, et al. Association of ginseng use with survival and quality of life among breast cancer patients. *Am J Epidemiol* 2006;163:645-53. [View abstract](#). **15176**
- Jiang X, Blair EY, McLachlan AJ. Investigation of the effects of herbal medicines on warfarin response in healthy subjects: a population pharmacokinetic-pharmacodynamic modeling approach. *J Clin Pharmacol* 2006;46:1370-8. [View abstract](#). **15585**
- Dasgupta A, Wu S, Actor J, et al. Effect of Asian and Siberian ginseng on serum digoxin measurement by five digoxin immunoassays. Significant variation in digoxin-like immunoreactivity among commercial ginsengs. *Am J Clin Pathol* 2003;119:298-303. [View abstract](#). **15587**
- Chow L, Johnson M, Wells A, Dasgupta A. Effect of the traditional Chinese medicines Chan Su, Lu-Shen-Wan, Dan Shen, and Asian ginseng on serum digoxin measurement by Tina-quant (Roche) and Synchron LX system (Beckman) digoxin immunoassays. *J Clin Lab Anal* 2003;17:22-7. [View abstract](#). **16417**
- Dasgupta A, Tso G, Wells A. Effect of Asian ginseng, Siberian ginseng, and Indian ayurvedic medicine Ashwagandha on serum digoxin measurement by Digoxin III, a new digoxin immunoassay. *J Clin Lab Anal* 2008;22:295-301. [View abstract](#). **17204**
- Lee SH, Ahn YM, Ahn SY, et al. Interaction between warfarin and Panax ginseng in ischemic stroke patients. *J Altern Complement Med* 2008;14:715-721. [View abstract](#). **17734**

- Reeds DN, Patterson BW, Okunade A, et al. Ginseng and ginsenoside re do not improve beta-cell function or insulin sensitivity in overweight and obese subjects with impaired glucose tolerance or diabetes. *Diabetes Care* 2011;34:1071-6. [View abstract](#). **17736**
- An X, Zhang AL, Yang AW, et al. Oral ginseng formulae for chronic obstructive pulmonary disease: a systematic review. *Resp Med* 2011;105:165-76. [View abstract](#). **22423**
- Smith M, Lin KM, and Zheng YP. PIII-89 an open trial of nifedipine-herb interactions: Nifedipine with St. John's wort, ginseng or ginkgo biloba. *Clin Pharm Ther* 2001;69:P86. **23596**
- Reay, J. L., Scholey, A. B., and Kennedy, D. O. Panax ginseng (G115) improves aspects of working memory performance and subjective ratings of calmness in healthy young adults. *Hum Psychopharmacol*. 2010;25(6):462-471. [View abstract](#). **23599**
- Forgo, I., Kayasseh, L., and Staub, J. J. [Effect of a standardized ginseng extract on general well-being, reaction time, lung function and gonadal hormones]. *Med Welt* 5-8-1981;32(19):751-756. [View abstract](#). **23600**
- Neri, M., Andermarcher, E., Pradelli, J. M., and Salvioli, G. Influence of a double blind pharmacological trial on two domains of well-being in subjects with age associated memory impairment. *Arch Gerontol.Geriatr*. 1995;21(3):241-252. [View abstract](#). **23608**
- Reay, J. L., Kennedy, D. O., and Scholey, A. B. Single doses of Panax ginseng (G115) reduce blood glucose levels and improve cognitive performance during sustained mental activity. *J Psychopharmacol*. 2005;19(4):357-365. [View abstract](#). **23609**
- Reay, J. L., Kennedy, D. O., and Scholey, A. B. Effects of Panax ginseng, consumed with and without glucose, on blood glucose levels and cognitive performance during sustained 'mentally demanding' tasks. *J Psychopharmacol*. 2006;20(6):771-781. [View abstract](#). **23611**
- Heo, J. H., Lee, S. T., Chu, K., Oh, M. J., Park, H. J., Shim, J. Y., and Kim, M. An open-label trial of Korean red ginseng as an adjuvant treatment for cognitive impairment in patients with Alzheimer's disease. *Eur.J Neurol*. 2008;15(8):865-868. [View abstract](#). **23612**
- Lee, S. T., Chu, K., Sim, J. Y., Heo, J. H., and Kim, M. Panax ginseng enhances cognitive performance in Alzheimer disease. *Alzheimer Dis.Assoc.Disord*. 2008;22(3):222-226. [View abstract](#). **23619**
- Lee, J. H., Kwon, K. R., Cho, C. K., Han, S. S., and Yoo, H. S. Advanced cancer cases treated with cultivated wild ginseng pharmacopuncture. *J Acupunct.Meridian.Stud*. 2010;3(2):119-124. [View abstract](#). **23620**
- Kwon, K. R., Kim, H., Kim, J. S., Yoo, H. S., and Cho, C. K. Case series of non-small cell lung cancer treated with mountain Ginseng pharmacopuncture. *J Acupunct.Meridian.Stud*. 2011;4(1):61-68. [View abstract](#). **23621**
- Mateo-Carrasco, H., Galvez-Contreras, M. C., Fernandez-Gines, F. D., and Nguyen, T. V. Elevated liver enzymes resulting from an interaction between Raltegravir and Panax ginseng: a case report and brief review. *Drug Metabol.Drug Interact*. 2012;27(3):171-175. [View abstract](#). **23622**
- Yun, T. K., Zheng, S., Choi, S. Y., Cai, S. R., Lee, Y. S., Liu, X. Y., Cho, K. J., and Park, K. Y. Non-organ-specific preventive effect of long-term administration of Korean red ginseng extract on incidence of human cancers. *J Med Food* 2010;13(3):489-494. [View abstract](#). **23623**
- Le Gal M, Cathebras P, and Struby K. Pharmaton capsules in the treatment of functional fatigue. A double-blind study versus placebo evaluated by a new methodology. *Phytotherapy Research* 1996;10(1):49-53.

**23624**

Lee, J. S., Kwon, K. A., Jung, H. S., Kim, J. H., and Hahm, K. B. Korea red ginseng on *Helicobacter pylori*-induced halitosis: newer therapeutic strategy and a plausible mechanism. *Digestion* 2009;80(3):192-199. [View abstract.](#)

**23625**

Sung, H., Jung, Y. S., and Cho, Y. K. Beneficial effects of a combination of Korean red ginseng and highly active antiretroviral therapy in human immunodeficiency virus type 1-infected patients. *Clin Vaccine Immunol.* 2009;16(8):1127-1131. [View abstract.](#)

**23626**

Reay, J. L., Kennedy, D. O., and Scholey, A. B. The glycaemic effects of single doses of *Panax ginseng* in young healthy volunteers. *Br J Nutr* 2006;96(4):639-642. [View abstract.](#)

**23627**

Vuksan, V., Sung, M. K., Sievenpiper, J. L., Stavro, P. M., Jenkins, A. L., Di, Buono M., Lee, K. S., Leiter, L. A., Nam, K. Y., Arnason, J. T., Choi, M., and Naeem, A. Korean red ginseng (*Panax ginseng*) improves glucose and insulin regulation in well-controlled, type 2 diabetes: results of a randomized, double-blind, placebo-controlled study of efficacy and safety. *Nutr Metab Cardiovasc.Dis* 2008;18(1):46-56. [View abstract.](#)

**23628**

Reay, J. L., Scholey, A. B., Milne, A., Fenwick, J., and Kennedy, D. O. *Panax ginseng* has no effect on indices of glucose regulation following acute or chronic ingestion in healthy volunteers. *Br J Nutr* 2009;101(11):1673-1678. [View abstract.](#)

**23629**

Sievenpiper, J. L., Sung, M. K., Di Buono, M., Seung-Lee, K., Nam, K. Y., Arnason, J. T., Leiter, L. A., and Vuksan, V. Korean red ginseng rootlets decrease acute postprandial glycemia: results from sequential preparation- and dose-finding studies. *J Am Coll.Nutr* 2006;25(2):100-107. [View abstract.](#)

**23630**

Oh, K. J., Chae, M. J., Lee, H. S., Hong, H. D., and Park, K. Effects of Korean red ginseng on sexual arousal in menopausal women: placebo-controlled, double-blind crossover clinical study. *J Sex Med* 2010;7(4 Pt 1):1469-1477. [View abstract.](#)

**23632**

Han, K. H., Choe, S. C., Kim, H. S., Sohn, D. W., Nam, K. Y., Oh, B. H., Lee, M. M., Park, Y. B., Choi, Y. S., Seo, J. D., and Lee, Y. W. Effect of red ginseng on blood pressure in patients with essential hypertension and white coat hypertension. *Am J Chin Med* 1998;26(2):199-209. [View abstract.](#)

**23635**

Ito, T. Y., Polan, M. L., Whipple, B., and Trant, A. S. The enhancement of female sexual function with ArginMax, a nutritional supplement, among women differing in menopausal status. *J Sex Marital Ther* 2006;32(5):369-378. [View abstract.](#)

**23637**

Jang, D. J., Lee, M. S., Shin, B. C., Lee, Y. C., and Ernst, E. Red ginseng for treating erectile dysfunction: a systematic review. *Br.J Clin.Pharmacol.* 2008;66(4):444-450. [View abstract.](#)

**23638**

Kim, T. H., Jeon, S. H., Hahn, E. J., Paek, K. Y., Park, J. K., Youn, N. Y., and Lee, H. L. Effects of tissue-cultured mountain ginseng (*Panax ginseng* CA Meyer) extract on male patients with erectile dysfunction. *Asian J Androl* 2009;11(3):356-361. [View abstract.](#)

**23639**

Kim, S., Shin, B. C., Lee, M. S., Lee, H., and Ernst, E. Red ginseng for type 2 diabetes mellitus: a systematic review of randomized controlled trials. *Chin J Integr.Med* 2011;17(12):937-944. [View abstract.](#)

**23640**

Shin, S. K., Kwon, J. H., Jeong, Y. J., Jeon, S. M., Choi, J. Y., and Choi, M. S. Supplementation of cheonggukjang and red ginseng cheonggukjang can improve plasma lipid profile and fasting blood glucose concentration in subjects with impaired fasting glucose. *J Med Food* 2011;14(1-2):108-113.[View abstract.](#)

**23641**

- Ni, H. X., Yu, N. J., and Yang, X. H. The study of ginsenoside on PPARgamma expression of mononuclear macrophage in type 2 diabetes. *Mol.Biol Rep.* 2010;37(6):2975-2979. [View abstract.](#)
- 23643**
- Kim, J. H., Park, C. Y., and Lee, S. J. Effects of sun ginseng on subjective quality of life in cancer patients: a double-blind, placebo-controlled pilot trial. *J Clin Pharm Ther* 2006;31(4):331-334. [View abstract.](#)
- 23644**
- Wiklund I, Karlberg J, and Lund B. A double blind comparison of the effect on quality of life of a combination of vital substances including standardized ginseng G115 and placebo. *Curr Ther Res* 1994;55(1):32-42.
- 23645**
- Cho, S., Won, C. H., Lee, D. H., Lee, M. J., Lee, S., So, S. H., Lee, S. K., Koo, B. S., Kim, N. M., and Chung, J. H. Red ginseng root extract mixed with *Torilus fructus* and *Corni fructus* improves facial wrinkles and increases type I procollagen synthesis in human skin: a randomized, double-blind, placebo-controlled study. *J Med Food* 2009;12(6):1252-1259. [View abstract.](#)
- 23646**
- Kulaputana, O., Thanakomsirichot, S., and Anomasiri, W. Ginseng supplementation does not change lactate threshold and physical performances in physically active Thai men. *J Med Assoc Thai.* 2007;90(6):1172-1179. [View abstract.](#)
- 23647**
- Engels, H. J., Fahlman, M. M., and Wirth, J. C. Effects of ginseng on secretory IgA, performance, and recovery from interval exercise. *Med Sci Sports Exerc* 2003;35(4):690-696. [View abstract.](#)
- 23650**
- Hu, Z., Yang, X., Ho, P. C., Chan, S. Y., Heng, P. W., Chan, E., Duan, W., Koh, H. L., and Zhou, S. Herb-drug interactions: a literature review. *Drugs* 2005;65(9):1239-1282. [View abstract.](#)
- 24101**
- Zhang, R., Jie, J., Zhou, Y., Cao, Z., and Li, W. Long-term effects of *Panax ginseng* on disposition of fexofenadine in rats in vivo. *Am J Chin Med* 2009;37(4):657-667. [View abstract.](#)
- 24104**
- Hao, M., Ba, Q., Yin, J., Li, J., Zhao, Y., and Wang, H. Deglycosylated ginsenosides are pG2 cells than glycosylated ginsenosides. *Drug Metab Pharmacokinet.* 12-17-2010. [View abstract.](#)
- 24105**
- Lee, Y. H., Lee, B. K., Choi, Y. J., Yoon, I. K., Chang, B. C., and Gwak, H. S. Interaction between warfarin and Korean red ginseng in patients with cardiac valve replacement. *Int J Cardiol.* 11-19-2010;145(2):275-276. [View abstract.](#)
- 24106**
- Liu, P., Yin, H., Xu, Y., Zhang, Z., Chen, K., and Li, Y. Effects of ginsenoside Rg1 on postimplantation rat and mouse embryos cultured in vitro. *Toxicol In Vitro* 2006;20(2):234-238. [View abstract.](#)
- 24107**
- Liu, P., Xu, Y., Yin, H., Wang, J., Chen, K., and Li, Y. Developmental toxicity research of ginsenoside Rb1 using a whole mouse embryo culture model. *Birth Defects Res B Dev Reprod Toxicol* 2005;74(2):207-209. [View abstract.](#)
- 24109**
- Niederhofer, H. *Panax ginseng* may improve some symptoms of attention-deficit hyperactivity disorder. *Journal of Dietary Supplements* 2009;6(1):22-27.
- 46933**
- Ito, T. Y., Trant, A. S., and Polan, M. L. A double-blind placebo-controlled study of ArginMax, a nutritional supplement for enhancement of female sexual function. *J Sex Marital Ther* 2001;27(5):541-549. [View abstract.](#)
- 51331**
- Gurley, B. J., Gardner, S. F., Hubbard, M. A., Williams, D. K., Gentry, W. B., Cui, Y., and Ang, C. Y. Clinical assessment of effects of botanical supplementation on cytochrome P450 phenotypes in the elderly: St John's wort, garlic oil, *Panax ginseng* and *Ginkgo biloba*. *Drugs Aging* 2005;22(6):525-539. [View abstract.](#)
- 54374**

Kennedy, D. O., Haskell, C. F., Wesnes, K. A., and Scholey, A. B. Improved cognitive performance in human volunteers following administration of guarana (*Paullinia cupana*) extract: comparison and interaction with *Panax ginseng*. *Pharmacol Biochem Behav* 2004;79(3):401-411. [View abstract](#).

**59006**

Cai, T., Wagenlehner, F. M., Mazzoli, S., Meacci, F., Mondaini, N., Nesi, G., Tiscione, D., Malossini, G., and Bartoletti, R. Semen quality in patients with *Chlamydia trachomatis* genital infection treated concurrently with prulifloxacin and a phytotherapeutic agent. *J Androl* 2012;33(4):615-623. [View abstract](#).

**71225**

Arbuzov, A. G., Maslov, L. N., Burkova, V. N., Krylatov, A. V., Konkovskaia, IuN, and Safronov, S. M. [Phytoadaptogens-induced phenomenon similar to ischemic preconditioning]. *Russ Fiziol Zh Im I M Sechenova* 2009;95(4):398-404. [View abstract](#).

**87767**

Hartley, D. E., Elsabagh, S., and File, S. E. Gincosan (a combination of *Ginkgo biloba* and *Panax ginseng*): the effects on mood and cognition of 6 and 12 weeks' treatment in post-menopausal women. *Nutr.Neurosci.* 2004;7(5-6):325-333. [View abstract](#).

**87984**

Wesnes KA, Faleni RA, Hefting NR, and et al. The cognitive, subjective, and physical effects of a *Ginkgo biloba*/*Panax ginseng* combination in healthy volunteers with neurasthenic complaints. *Psychopharmacol Bull* 1997;33(4):677-683. [View abstract](#).

**88046**

Kennedy DO, Scholey AB, and Wesnes KA. Differential, dose dependent changes in cognitive performance following acute administration of a *Ginkgo biloba*/*Panax ginseng* combination to healthy young volunteers. *Nutr.Neurosci.* 2001;4(5):399-412. [View abstract](#).

**89402**

Martínez-Mir I, Rubio E, Morales-Olivas FJ, Palop-Larrea V. Transient ischemic attack secondary to hypertensive crisis related to *Panax ginseng*. *Ann Pharmacother* 2004;38(11):1970. [View abstract](#).

**89712**

Yakoot M, Salem A, Helmy S. Effect of Memo, a natural formula combination, on Mini-Mental State Examination scores in patients with mild cognitive impairment. *Clin Interv Aging* 2013;8:975-81. [View abstract](#).

**89732**

De Souza LR, Jenkins AL, Sievenpiper JL, Jovanovski E, Rahelic D, Vuksan V. Korean red ginseng (*Panax ginseng* C.A. Meyer) root fractions: differential effects on postprandial glycemia in healthy individuals. *J Ethnopharmacol* 2011;137(1):245-50. [View abstract](#).

**89733**

Kakisaka Y, Ohara T, Tozawa H, Sato S, Katayama S, Suzuki T, Hino-Fukuyo N, Kure S. *Panax ginseng*: a newly identified cause of gynecomastia. *Tohoku J Exp Med* 2012;228(2):143-5. [View abstract](#).

**89734**

Malati CY, Robertson SM, Hunt JD, Chairez C, Alfaro RM, Kovacs JA, Penzak SR. Influence of *Panax ginseng* on cytochrome P450 (CYP)3A and P-glycoprotein (P-gp) activity in healthy participants. *J Clin Pharmacol* 2012;52(6):932-9. [View abstract](#).

**89735**

Sen A. Orobuccolingual dyskinesia after long-term use of black cohosh and ginseng. *J Neuropsychiatry Clin Neurosci* 2013 Fall;25(4):E50. [View abstract](#).

**89736**

Kimura, Y., Okuda, H., and Arichi, S. Effects of various ginseng saponins on 5-hydroxytryptamine release and aggregation in human platelets. *J Pharm Pharmacol* 1988;40(12):838-843. [View abstract](#).

**89737**

- Ping FW, Keong CC, Bandyopadhyay A. Effects of acute supplementation of Panax ginseng on endurance running in a hot & humid environment. *Indian J Med Res* 2011;133:96-102. [View abstract](#). **89738**
- Jung HL, Kwak HE, Kim SS, Kim YC, Lee CD, Byurn HK, Kang HY. Effects of Panax ginseng supplementation on muscle damage and inflammation after uphill treadmill running in humans. *Am J Chin Med* 2011;39(3):441-50. [View abstract](#). **89739**
- Doosti A, Lotfi Y, Moossavi A, Bakhshi E, Talasaz AH, Hoorzad A. Comparison of the effects of N-acetyl-cysteine and ginseng in prevention of noise induced hearing loss in male textile workers. *Noise Health* 2014;16(71):223-7. [View abstract](#). **89740**
- Oh MR, Park SH, Kim SY, Back HI, Kim MG, Jeon JY, Ha KC, Na WT, Cha YS, Park BH, Park TS, Chae SW. Postprandial glucose-lowering effects of fermented red ginseng in subjects with impaired fasting glucose or type 2 diabetes: a randomized, double-blind, placebo-controlled clinical trial. *BMC Complement Altern Med* 2014;14:237. [View abstract](#). **89741**
- Rhee MY, Cho B, Kim KI, Kim J, Kim MK, Lee EK, Kim HJ, Kim CH. Blood pressure lowering effect of Korea ginseng derived ginsenoside K-g1. *Am J Chin Med* 2014;42(3):605-18. [View abstract](#). **89742**
- Lee MH, Kwak JH, Jeon G, Lee JW, Seo JH, Lee HS, Lee JH. Red ginseng relieves the effects of alcohol consumption and hangover symptoms in healthy men: a randomized crossover study. *Food Funct* 2014;5(3):528-34. [View abstract](#). **89743**
- Kim HG, Cho JH, Yoo SR, Lee JS, Han JM, Lee NH, Ahn YC, Son CG. Antifatigue effects of Panax ginseng C.A. Meyer: a randomised, double-blind, placebo-controlled trial. *PLoS One* 2013;8(4):e61271. [View abstract](#). **89744**
- Braz AS, Morais LC, Paula AP, Diniz MF, Almeida RN. Effects of Panax ginseng extract in patients with fibromyalgia: a 12-week, randomized, double-blind, placebo-controlled trial. *Rev Bras Psiquiatr* 2013;35(1):21-8. [View abstract](#). **89745**
- Etemadifar M, Sayahi F, Abtahi SH, Shemshaki H, Dorooshi GA, Goodarzi M, Akbari M, Fereidan-Esfahani M. Ginseng in the treatment of fatigue in multiple sclerosis: a randomized, placebo-controlled, double-blind pilot study. *Int J Neurosci* 2013;123(7):480-6. [View abstract](#). **89746**
- Lee CS, Lee JH, Oh M, Choi KM, Jeong MR, Park JD, Kwon DY, Ha KC, Park EO, Lee N, Kim SY, Choi EK, Kim MG, Chae SW. Preventive effect of Korean red ginseng for acute respiratory illness: a randomized and double-blind clinical trial. *J Korean Med Sci* 2012;27(12):1472-8. [View abstract](#). **89747**
- Choi YD, Park CW, Jang J, Kim SH, Jeon HY, Kim WG, Lee SJ, Chung WS. Effects of Korean ginseng berry extract on sexual function in men with erectile dysfunction: a multicenter, placebo-controlled, double-blind clinical study. *Int J Impot Res* 2013;25(2):45-50. [View abstract](#). **89748**
- Lee JK, Kang HW, Kim JH, Lim YJ, Koh MS, Lee JH. Effects of Korean red ginseng as an adjuvant to bile acids in medical dissolution therapy for gallstones: a prospective, randomized, controlled, double-blind pilot trial. *Food Funct* 2013;4(1):116-20. [View abstract](#). **89749**
- Kim SY, Seo SK, Choi YM, Jeon YE, Lim KJ, Cho S, Choi YS, Lee BS. Effects of red ginseng supplementation on menopausal symptoms and cardiovascular risk factors in postmenopausal women: a double-blind randomized controlled trial. *Menopause* 2012;19(4):461-6. [View abstract](#). **89751**
- Min, K. T., Koo, B. N., Kang, J. W., Bai, S. J., Ko, S. R., and Cho, Z. H. Effect of ginseng saponins on the recombinant serotonin type 3A receptor expressed in xenopus oocytes: implication of possible application as an antiemetic. *J Altern Complement Med* 2003;9(4):505-510. [View abstract](#).

- Kim, J. H., Yoon, I. S., Lee, B. H., Choi, S. H., Lee, J. H., Lee, J. H., Jeong, S. M., Kim, S. C., Park, C. K., Lee, S. M., and Nah, S. Y. Effects of Korean red ginseng extract on cisplatin-induced nausea and vomiting. *Arch Pharm Res* 2005;28(6):680-684. [View abstract](#). **89753**
- Kim, S. H., Park, K. S., Chang, M. J., and Sung, J. H. Effects of Panax ginseng extract on exercise-induced oxidative stress. *J Sports Med Phys Fitness* 2005;45(2):178-182. [View abstract](#). **89754**
- Lee, D. C., Lee, M. O., Kim, C. Y., and Clifford, D. H. Effect of ether, ethanol and aqueous extracts of ginseng on cardiovascular function in dogs. *Can J Comp Med* 1981;45(2):182-187. [View abstract](#). **89755**
- Lee Y, Jin Y, Lim W, Ji S, Choi S, Jang S, Lee S. A ginsenoside-Rh1, a component of ginseng saponin, activates estrogen receptor in human breast carcinoma MCF-7 cells. *J Steroid Biochem Mol Biol* 2003;84(4):463-8. [View abstract](#). **89756**
- Chun, Y. H., Kim, K. R., and Rhe, B. Y. Effect of Korean Ginseng on teratogenicity of chlorambucil on developing fetal skeletogenesis in rats. *Univ Med J* 1982;19:455. **89757**
- Park HJ, Rhee MH, Park KM, Nam KY, Park KH. Effect of non-saponin fraction from Panax ginseng on cGMP and thromboxane A2 in human platelet aggregation. *J Ethnopharmacol* 1995;49(3):157-62. [View abstract](#). **89758**
- Yamamoto M, Uemura T, Nakama S, Uemiya M, Kumagai A. Serum HDL-cholesterol-increasing and fatty liver-improving actions of Panax ginseng in high cholesterol diet-fed rats with clinical effect on hyperlipidemia in man. *Am J Chin Med* 1983;11(1-4):96-101. [View abstract](#). **89759**
- Rhee MY, Kim YS, Bae JH, Nah DY, Kim YK, Lee MM, Kim HY. Effect of Korean red ginseng on arterial stiffness in subjects with hypertension. *J Altern Complement Med* 2011;17(1):45-9. [View abstract](#). **89760**
- Choi HK, Seong DH, Rha KH. Clinical efficacy of Korean red ginseng for erectile dysfunction. *Int J Impot Res* 1995;7(3):181-6. [View abstract](#). **89761**
- Nabata H, Saito H, Takagi K. Pharmacological studies of neutral saponins (GNS) of Panax Ginseng root. *Jpn J Pharmacol* 1973;23(1):29-41. [View abstract](#). **89762**
- Kaku T, Miyata T, Uruno T, Sako I, Kinoshita A. Chemico-pharmacological studies on saponins of Panax ginseng C. A. Meyer. II. Pharmacological part. *Arzneimittelforschung* 1975;25(4):539-47. [View abstract](#). **89763**
- Bilgi N, Bell K, Ananthakrishnan AN, Atallah E. Imatinib and Panax ginseng: a potential interaction resulting in liver toxicity. *Ann Pharmacother* 2010;44(5):926-8. [View abstract](#). **89764**
- Persson IA, Dong L, Persson K. Effect of Panax ginseng extract (G115) on angiotensin-converting enzyme (ACE) activity and nitric oxide (NO) production. *J Ethnopharmacol* 2006;105(3):321-5. [View abstract](#). **89766**
- Lim YJ, Na HS, Yun YS, Choi IS, Oh JS, Rhee JH, Cho BH, Lee HC. Suppressive effects of ginsan on the development of allergic reaction in murine asthmatic model. *Int Arch Allergy Immunol* 2009;150(1):32-42. [View abstract](#). **89767**
- Ahn JY, Song JY, Yun YS, Jeong G, Choi IS. Protection of Staphylococcus aureus-infected septic mice by suppression of early acute inflammation and enhanced antimicrobial activity by ginsan. *FEMS Immunol Med Microbiol* 2006;46(2):187-97. [View abstract](#). **89768**
- 89769**

- Park EK, Choo MK, Kim EJ, Han MJ, Kim DH. Antiallergic activity of ginsenoside Rh2. *Biol Pharm Bull* 2003;26(11):1581-4. [View abstract](#). **89770**
- Cabral de Oliveira AC, Perez AC, Merino G, Prieto JG, Alvarez AI. Protective effects of Panax ginseng on muscle injury and inflammation after eccentric exercise. *Comp Biochem Physiol C Toxicol Pharmacol* 2001;130(3):369-77. [View abstract](#). **89771**
- Lee KD, Huemer RP. Antitumoral activity of Panax ginseng extracts. *Jpn J Pharmacol* 1971;21(3):299-302. [View abstract](#). **89772**
- Xiaoguang C, Hongyan L, Xiaohong L, Zhaodi F, Yan L, Lihua T, Rui H. Cancer chemopreventive and therapeutic activities of red ginseng. *J Ethnopharmacol* 1998;60(1):71-8. [View abstract](#). **89773**
- Katano M, Yamamoto H, Matsunaga H, Mori M, Takata K, Nakamura M. [Cell growth inhibitory substance isolated from Panax ginseng root: panaxytriol]. *Gan To Kagaku Ryoho* 1990;17(5):1045-9. [View abstract](#). **89774**
- Yi RL, Li W, Hao XZ. [Inductive differentiation effect of ginsenosides on human acute non-lymphocytic leukemic cells in 58 patients]. *Zhongguo Zhong Xi Yi Jie He Za Zhi* 1993;13(12):722-4, 708. [View abstract](#). **89775**
- Lee WH, Choi JS, Kim HY, Park JH, Park BD, Cho SJ, Lee SK, Surh YJ. Potentiation of etoposide-induced apoptosis in HeLa cells by co-treatment with KG-135, a quality-controlled standardized ginsenoside formulation. *Cancer Lett* 2010;294(1):74-81. [View abstract](#). **89776**
- Im GJ, Chang JW, Choi J, Chae SW, Ko EJ, Jung HH. Protective effect of Korean red ginseng extract on cisplatin ototoxicity in HEI-OC1 auditory cells. *Phytother Res* 2010;24(4):614-21. [View abstract](#). **89777**
- Sun XB, Matsumoto T, Yamada H. Anti-ulcer activity and mode of action of the polysaccharide fraction from the leaves of Panax ginseng. *Planta Med* 1992;58(5):432-5. [View abstract](#). **89778**
- Kim H, Chen X, Gillis CN. Ginsenosides protect pulmonary vascular endothelium against free radical-induced injury. *Biochem Biophys Res Commun* 1992;189(2):670-6. [View abstract](#). **89779**
- Chang MS, Lee SG, Rho HM. Transcriptional activation of Cu/Zn superoxide dismutase and catalase genes by panaxadiol ginsenosides extracted from Panax ginseng. *Phytother Res* 1999;13(8):641-4. [View abstract](#). **89780**
- Siddique MS, Eddeb F, Mantle D, Mendelow AD. Extracts of Ginkgo biloba and Panax ginseng protect brain proteins from free radical induced oxidative damage in vitro. *Acta Neurochir Suppl* 2000;76:87-90. [View abstract](#). **89782**
- Hien TT, Kim ND, Kim HS, Kang KW. Ginsenoside Rg3 inhibits tumor necrosis factor-alpha-induced expression of cell adhesion molecules in human endothelial cells. *Pharmazie* 2010;65(9):699-701. [View abstract](#). **89783**
- Park JS, Park EM, Kim DH, Jung K, Jung JS, Lee EJ, Hyun JW, Kang JL, Kim HS. Anti-inflammatory mechanism of ginseng saponins in activated microglia. *J Neuroimmunol* 2009;209(1-2):40-9. [View abstract](#). **89784**
- Shukla R, Kumar M. Role of Panax ginseng as an antioxidant after cadmium-induced hepatic injuries. *Food Chem Toxicol* 2009;47(4):769-73. [View abstract](#). **89785**

- Shim JY, Kim MH, Kim HD, Ahn JY, Yun YS, Song JY. Protective action of the immunomodulator ginsan against carbon tetrachloride-induced liver injury via control of oxidative stress and the inflammatory response. *Toxicol Appl Pharmacol* 2010;242(3):318-25. [View abstract](#). **89786**
- Salvati G, Genovesi G, Marcellini L, Paolini P, De Nuccio I, Pepe M, Re M. Effects of Panax Ginseng C.A. Meyer saponins on male fertility. *Panminerva Med* 1996;38(4):249-54. [View abstract](#). **89787**
- Fahim MS, Fahim Z, Harman JM, Clevenger TE, Mullins W, Hafez ES. Effect of Panax ginseng on testosterone level and prostate in male rats. *Arch Androl* 1982;8(4):261-3. [View abstract](#). **89788**
- Lee SJ, Moon TW, Lee J. Increases of 2-furanmethanol and maltol in Korean red ginseng during explosive puffing process. *J Food Sci* 2010;75(2):C147-51. [View abstract](#). **89789**
- Ruan CC, Liu Z, Li X, Liu X, Wang LJ, Pan HY, Zheng YN, Sun GZ, Zhang YS, Zhang LX. Isolation and characterization of a new ginsenoside from the fresh root of Panax Ginseng. *Molecules* 2010;15(4):2319-25. [View abstract](#). **89790**
- Tung NH, Song GY, Minh CV, Kiem PV, Jin LG, Boo HJ, Kang HK, Kim YH. Steamed ginseng-leaf components enhance cytotoxic effects on human leukemia HL-60 cells. *Chem Pharm Bull (Tokyo)* 2010;58(8):1111-5. [View abstract](#). **89791**
- Sugimoto S, Nakamura S, Matsuda H, Kitagawa N, Yoshikawa M. Chemical constituents from seeds of Panax ginseng: structure of new dammarane-type triterpene ketone, panaxadione, and hplc comparisons of seeds and flesh. *Chem Pharm Bull (Tokyo)* 2009;57(3):283-7. [View abstract](#). **89792**
- Nguyen HT, Song GY, Kim JA, Hyun JH, Kang HK, Kim YH. Dammarane-type saponins from the flower buds of Panax ginseng and their effects on human leukemia cells. *Bioorg Med Chem Lett* 2010;20(1):309-14. [View abstract](#). **89793**
- Liu GY, Li XW, Wang NB, Zhou HY, Wei W, Gui MY, Yang B, Jin YR. Three new dammarane-type triterpene saponins from the leaves of Panax ginseng C.A. Meyer. *J Asian Nat Prod Res* 2010;12(10):865-73. [View abstract](#). **89794**
- Xu W, Yue A, Yang X. [GC-MS analysis of essential oil of honeyed red ginseng]. *Zhongguo Zhong Yao Za Zhi* 2009;34(5):591-5. [View abstract](#). **89795**
- Park EK, Choo MK, Han MJ, Kim DH. Ginsenoside Rh1 possesses antiallergic and anti-inflammatory activities. *Int Arch Allergy Immunol* 2004;133(2):113-20. [View abstract](#). **89796**
- Kim KR, Chung TY, Shin H, Son SH, Park KK, Choi JH, Chung WY. Red ginseng saponin extract attenuates murine collagen-induced arthritis by reducing pro-inflammatory responses and matrix metalloproteinase-3 expression. *Biol Pharm Bull* 2010;33(4):604-10. [View abstract](#). **89797**
- Yun TK, Lee YS, Lee YH, Kim SI, Yun HY. Anticarcinogenic effect of Panax ginseng C.A. Meyer and identification of active compounds. *J Korean Med Sci* 2001;16 Suppl:S6-18. [View abstract](#). **89798**
- Yun YS, Lee YS, Jo SK, Jung IS. Inhibition of autochthonous tumor by ethanol insoluble fraction from Panax ginseng as an immunomodulator. *Planta Med* 1993;59(6):521-4. [View abstract](#). **89799**
- Lee SD, Park SK, Lee ES, Kim HM, Lee CW, Lee K, Lee KH, Kang MR, Lee KS, Lee J, Hwang WI, Kim DC. A lipid-soluble red ginseng extract inhibits the growth of human lung tumor xenografts in nude mice. *J Med Food* 2010;13(1):1-5. [View abstract](#). **89800**
- Abdel-Wahhab MA, Hassan NS, El-Kady AA, Khadrawy YA, El-Nekeety AA, Mohamed SR, Sharaf HA, Mannaa FA. Red ginseng extract protects against aflatoxin B1 and fumonisins-

induced hepatic pre-cancerous lesions in rats. *Food Chem Toxicol* 2010;48(2):733-42. [View abstract](#).

**89801**

Park SE, Park C, Kim SH, Hossain MA, Kim MY, Chung HY, Son WS, Kim GY, Choi YH, Kim ND. Korean red ginseng extract induces apoptosis and decreases telomerase activity in human leukemia cells. *J Ethnopharmacol* 2009;121(2):304-12. [View abstract](#).

**89802**

Wong VK, Cheung SS, Li T, Jiang ZH, Wang JR, Dong H, Yi XQ, Zhou H, Liu L. Asian ginseng extract inhibits in vitro and in vivo growth of mouse lewis lung carcinoma via modulation of ERK-p53 and NF- $\kappa$ B signaling. *J Cell Biochem* 2010;111(4):899-910. [View abstract](#).

**89803**

Wang X, Zheng YL, Li K, Lin N, Fan QX. [The effects of ginsenosides Rg3 on the expressions of VEGF and KDR in human lung squamous cancer cells]. *Zhong Yao Cai* 2009;32(11):1708-10. [View abstract](#).

**89804**

Ming YL, Chen ZY, Chen LH, Tong QX, Zheng ZZ, Zheng GH, Qi XH. [Inhibitory effect of ginseng saponin IH901 on proliferation and metastasis of ECV304 cell line and its molecular mechanism]. *Yao Xue Xue Bao* 2009;44(9):967-72. [View abstract](#).

**89805**

Yoo JH, Kwon HC, Kim YJ, Park JH, Yang HO. KG-135, enriched with selected ginsenosides, inhibits the proliferation of human prostate cancer cells in culture and inhibits xenograft growth in athymic mice. *Cancer Lett* 2010;289(1):99-110. [View abstract](#).

**89806**

Choi S, Kim TW, Singh SV. Ginsenoside Rh2-mediated G1 phase cell cycle arrest in human breast cancer cells is caused by p15 Ink4B and p27 Kip1-dependent inhibition of cyclin-dependent kinases. *Pharm Res* 2009;26(10):2280-8. [View abstract](#).

**89807**

Kim SH, Cho SS, Simkhada JR, Lee HJ, Kim SW, Kim TS, Yoo JC. Enhancement of 1,25-dihydroxyvitamin D3- and all-trans retinoic acid-induced HL-60 leukemia cell differentiation by *Panax ginseng*. *Biosci Biotechnol Biochem* 2009;73(5):1048-53. [View abstract](#).

**89808**

Lee LS, Stephenson KK, Fahey JW, Parsons TL, Lietman PS, Andrade AS, Lei X, Yun H, Soon GH, Shen P, Danishefsky S, Flexner C. Induction of chemoprotective phase 2 enzymes by ginseng and its components. *Planta Med* 2009;75(10):1129-33. [View abstract](#).

**89809**

Wakabayashi C, Hasegawa H, Murata J, Saiki I. In vivo antimetastatic action of ginseng protopanaxadiol saponins is based on their intestinal bacterial metabolites after oral administration. *Oncol Res* 1997;9(8):411-7. [View abstract](#).

**89810**

He BC, Gao JL, Luo X, Luo J, Shen J, Wang L, Zhou Q, Wang YT, Lu HH, Haydon RC, Wang CZ, Du W, Yuan CS, He TC, Zhang BQ. Ginsenoside Rg3 inhibits colorectal tumor growth through the down-regulation of Wnt/ $\beta$ -catenin signaling. *Int J Oncol* 2011;38(2):437-45. [View abstract](#).

**89811**

Kim do Y, Park MW, Yuan HD, Lee HJ, Kim SH, Chung SH. Compound K induces apoptosis via CAMK-IV/AMPK pathways in HT-29 colon cancer cells. *J Agric Food Chem* 2009;57(22):10573-8. [View abstract](#).

**89812**

Cho SH, Chung KS, Choi JH, Kim DH, Lee KT. Compound K, a metabolite of ginseng saponin, induces apoptosis via caspase-8-dependent pathway in HL-60 human leukemia cells. *BMC Cancer* 2009 Dec 18;9:449. [View abstract](#).

**89813**

Chae S, Kang KA, Chang WY, Kim MJ, Lee SJ, Lee YS, Kim HS, Kim DH, Hyun JW. Effect of compound K, a metabolite of ginseng saponin, combined with gamma-ray radiation in human lung cancer cells in vitro and in vivo. *J Agric Food Chem* 2009;57(13):5777-82. [View abstract](#).

**89814**

- Liu Z, Wang LJ, Li X, Hu JN, Chen Y, Ruan CC, Sun GZ. Hypoglycemic effects of malonyl-ginsenosides extracted from roots of *Panax ginseng* on streptozotocin-induced diabetic mice. *Phytother Res* 2009;23(10):1426-30. [View abstract](#). **89815**
- Raghavendran HR, Rekha S, Shin JW, Kim HG, Wang JH, Park HJ, Choi MK, Cho JH, Son CG. Effects of Korean ginseng root extract on cisplatin-induced emesis in a rat-pica model. *Food Chem Toxicol* 2011;49(1):215-21. [View abstract](#). **89817**
- Jung JS, Shin JA, Park EM, Lee JE, Kang YS, Min SW, Kim DH, Hyun JW, Shin CY, Kim HS. Anti-inflammatory mechanism of ginsenoside Rh1 in lipopolysaccharide-stimulated microglia: critical role of the protein kinase A pathway and hemeoxygenase-1 expression. *J Neurochem* 2010;115(6):1668-80. [View abstract](#). **89818**
- Tung NH, Song GY, Nhiem NX, Ding Y, Tai BH, Jin LG, Lim CM, Hyun JW, Park CJ, Kang HK, Kim YH. Dammarane-type saponins from the flower buds of *Panax ginseng* and their intracellular radical scavenging capacity. *J Agric Food Chem* 2010;58(2):868-74. [View abstract](#). **89819**
- Kim YH, Kim GH, Shin JH, Kim KS, Lim JS. Effect of korean red ginseng on testicular tissue injury after torsion and detorsion. *Korean J Urol* 2010;51(11):794-9. [View abstract](#). **89820**
- Park SH, Jang JH, Chen CY, Na HK, Surh YJ. A formulated red ginseng extract rescues PC12 cells from PCB-induced oxidative cell death through Nrf2-mediated upregulation of heme oxygenase-1 and glutamate cysteine ligase. *Toxicology* 2010;278(1):131-9. [View abstract](#). **89821**
- Teng CM, Kuo SC, Ko FN, Lee JC, Lee LG, Chen SC, Huang TF. Antiplatelet actions of panaxynol and ginsenosides isolated from ginseng. *Biochim Biophys Acta* 1989;990(3):315-20. [View abstract](#). **89822**
- Kuo SC, Teng CM, Lee JC, Ko FN, Chen SC, Wu TS. Antiplatelet components in *Panax ginseng*. *Planta Med* 1990;56(2):164-7. [View abstract](#). **89824**
- Oyagi A, Ogawa K, Kakino M, Hara H. Protective effects of a gastrointestinal agent containing Korean red ginseng on gastric ulcer models in mice. *BMC Complement Altern Med* 2010;10:45. [View abstract](#). **89825**
- Baek SH, Lee JG, Park SY, Bae ON, Kim DH, Park JH. Pectic polysaccharides from *Panax ginseng* as the antirotavirus principals in ginseng. *Biomacromolecules* 2010;11(8):2044-52. [View abstract](#). **89826**
- Cho YK, Jung YS, Sung H, Sim MK, Kim YK. High frequency of gross deletions in 5' LTR/gag and nef genes in patients infected with CRF02\_AG of HIV type 1 who survived for over 20 years: an association with Korean red ginseng. *AIDS Res Hum Retroviruses* 2009;25(5):535-41. [View abstract](#). **89827**
- Cho YK, Jung YS, Sung H. Frequent gross deletion in the HIV type 1 nef gene in hemophiliacs treated with Korean Red Ginseng: inhibition of detection by highly active antiretroviral therapy. *AIDS Res Hum Retroviruses* 2009;25(4):419-24. [View abstract](#). **89828**
- Hong BN, Kim SY, Yi TH, Kang TH. Post-exposure treatment with ginsenoside compound K ameliorates auditory functional injury associated with noise-induced hearing loss in mice. *Neurosci Lett* 2011;487(2):217-22. [View abstract](#). **89829**
- Chen X. Cardiovascular protection by ginsenosides and their nitric oxide releasing action. *Clin Exp Pharmacol Physiol* 1996;23(8):728-32. [View abstract](#). **89830**

Deng J, Lv XT, Wu Q, Huang XN. Ginsenoside Rg(1) inhibits rat left ventricular hypertrophy induced by abdominal aorta coarctation: involvement of calcineurin and mitogen-activated protein kinase signalings. *Eur J Pharmacol* 2009;608(1-3):42-7. [View abstract](#).

**89831**

Su W, Sun AJ, Xu DL, Zhang HQ, Yang L, Yuan LY, Jia JG, Zou YZ, Wu YL, Wang KQ, Ge JB. Inhibiting effects of total saponins of panax ginseng on immune maturation of dendritic cells induced by oxidized-low density lipoprotein. *Cell Immunol* 2010;263(1):99-104. [View abstract](#).

**89832**

Wang T, Yu XF, Qu SC, Xu HL, Sui DY. Ginsenoside Rb3 inhibits angiotensin II-induced vascular smooth muscle cells proliferation. *Basic Clin Pharmacol Toxicol* 2010;107(2):685-9. [View abstract](#).

**89833**

Toh HT. Improved isolated heart contractility and mitochondrial oxidation after chronic treatment with Panax ginseng in rats. *Am J Chin Med* 1994;22(3-4):275-84. [View abstract](#).

**89834**

Li X, Guo R, Li L. [Pharmacological variations of Panax ginseng C.A. Meyer during processing]. *Zhongguo Zhong Yao Za Zhi* 1991;16(1):3-7, 62. [View abstract](#).

**89835**

Ahn CM, Hong SJ, Choi SC, Park JH, Kim JS, Lim DS. Red ginseng extract improves coronary flow reserve and increases absolute numbers of various circulating angiogenic cells in patients with first ST-segment elevation acute myocardial infarction. *Phytother Res* 2011;25(2):239-49. [View abstract](#).

**89837**

Bai CX, Takahashi K, Masumiya H, Sawanobori T, Furukawa T. Nitric oxide-dependent modulation of the delayed rectifier K<sup>+</sup> current and the L-type Ca<sup>2+</sup> current by ginsenoside Re, an ingredient of Panax ginseng, in guinea-pig cardiomyocytes. *Br J Pharmacol* 2004;142(3):567-75. [View abstract](#).

**89838**

Kennedy DO, Scholey AB, Drewery L, Marsh VR, Moore B, Ashton H. Electroencephalograph effects of single doses of Ginkgo biloba and Panax ginseng in healthy young volunteers. *Pharmacol Biochem Behav* 2003;75(3):701-9. [View abstract](#).

**89839**

Takagi K, Saito H, Nabata H. Pharmacological studies of Panax ginseng root: estimation of pharmacological actions of Panax ginseng root. *Jpn J Pharmacol* 1972;22(2):245-9. [View abstract](#).

**89840**

Lee TF, Shiao YJ, Chen CF, Wang LC. Effect of ginseng saponins on beta-amyloid-suppressed acetylcholine release from rat hippocampal slices. *Planta Med* 2001;67(7):634-7. [View abstract](#).

**89841**

Rudakewich M, Ba F, Benishin CG. Neurotrophic and neuroprotective actions of ginsenosides Rb(1) and Rg(1). *Planta Med* 2001;67(6):533-7. [View abstract](#).

**89842**

Zhao H, Li Q, Pei X, Zhang Z, Yang R, Wang J, Li Y. Long-term ginsenoside administration prevents memory impairment in aged C57BL/6J mice by up-regulating the synaptic plasticity-related proteins in hippocampus. *Behav Brain Res* 2009;201(2):311-7. [View abstract](#).

**89843**

Nitta H, Matsumoto K, Shimizu M, Ni XH, Watanabe H. Panax ginseng extract improves the scopolamine-induced disruption of 8-arm radial maze performance in rats. *Biol Pharm Bull* 1995;18(10):1439-42. [View abstract](#).

**89844**

Wang Y, Liu J, Zhang Z, Bi P, Qi Z, Zhang C. Anti-neuroinflammation effect of ginsenoside Rb1 in a rat model of Alzheimer disease. *Neurosci Lett* 2011;487(1):70-2. [View abstract](#).

**89846**

Wang Q, Sun LH, Jia W, Liu XM, Dang HX, Mai WL, Wang N, Steinmetz A, Wang YQ, Xu CJ. Comparison of ginsenosides Rg1 and Rb1 for their effects on improving scopolamine-induced learning and memory impairment in mice. *Phytother Res* 2010;24(12):1748-54. [View abstract](#).

**89847**

- Lee B, Park J, Kwon S, Park MW, Oh SM, Yeom MJ, Shim I, Lee HJ, Hahm DH. Effect of wild ginseng on scopolamine-induced acetylcholine depletion in the rat hippocampus. *J Pharm Pharmacol* 2010;62(2):263-71. [View abstract](#). **89848**
- Wang J, Flaisher-Grinberg S, Li S, Liu H, Sun L, Zhou Y, Einat H. Antidepressant-like effects of the active acidic polysaccharide portion of ginseng in mice. *J Ethnopharmacol* 2010;132(1):65-9. [View abstract](#). **89849**
- Xu C, Teng J, Chen W, Ge Q, Yang Z, Yu C, Yang Z, Jia W. 20(S)-protopanaxadiol, an active ginseng metabolite, exhibits strong antidepressant-like effects in animal tests. *Prog Neuropsychopharmacol Biol Psychiatry* 2010;34(8):1402-11. [View abstract](#). **89851**
- Kanzaki T, Morisaki N, Shiina R, Saito Y. Role of transforming growth factor-beta pathway in the mechanism of wound healing by saponin from Ginseng Radix rubra. *Br J Pharmacol* 1998;125(2):255-62. [View abstract](#). **89852**
- Lee S, Jung J, and Cho D. Ginseng application on the skin enhances synthesis of extracellular matrix proteins:217. *The Journal of Investigative Dermatology* 1996;106(4):842. **89853**
- Lu X, Cheng BB, Ling CQ. [Effects of different assemblages with components of Shengmai Powder on glucocorticoid receptor in liver of thermal injured rat]. *Zhongguo Zhong Xi Yi Jie He Za Zhi* 2010;30(6):622-4. [View abstract](#). **89855**
- Scaglione F, Cogo R, and Cocuzza C. Immunomodulatory effects of Panax ginseng C.A.Meyer (G115) on alveolar macrophages from patients suffering with chronic bronchitis. *Int J Immunother* 1994;10(1):21-24. **89856**
- Tong LS, Chao CY. Effects of ginsenoside Rg1 of Panax ginseng on mitosis in human blood lymphocytes in vitro. *Am J Chin Med* 1980 Autumn;8(3):254-67. [View abstract](#). **89857**
- Jie YH, Cammisuli S, Baggiolini M. Immunomodulatory effects of Panax Ginseng C.A. Meyer in the mouse. *Agents Actions* 1984;15(3-4):386-91. [View abstract](#). **89858**
- Kim JY, Germolec DR, Luster MI. Panax ginseng as a potential immunomodulator: studies in mice. *Immunopharmacol Immunotoxicol* 1990;12(2):257-76. [View abstract](#). **89859**
- Jang HI, Shin HM. Wild Panax ginseng (Panax ginseng C.A. Meyer) protects against methotrexate-induced cell regression by enhancing the immune response in RAW 264.7 macrophages. *Am J Chin Med* 2010;38(5):949-60. [View abstract](#). **89860**
- Nakaya TA, Kita M, Kuriyama H, Iwakura Y, Imanishi J. Panax ginseng induces production of proinflammatory cytokines via toll-like receptor. *J Interferon Cytokine Res* 2004;24(2):93-100. [View abstract](#). **89861**
- Liu J, Wang S, Liu H, Yang L, Nan G. Stimulatory effect of saponin from Panax ginseng on immune function of lymphocytes in the elderly. *Mech Ageing Dev* 1995;83(1):43-53. [View abstract](#). **89862**
- Mizuno M, Yamada J, Terai H, Kozukue N, Lee YS, Tsuchida H. Differences in immunomodulating effects between wild and cultured Panax ginseng. *Biochem Biophys Res Commun* 1994;200(3):1672-8. [View abstract](#). **89863**
- Smolina TP, Solov'eva TF, Besednova NN. [Immunotropic activity of panaxans--bioglycans isolated from ginseng]. *Antibiot Khimioter* 2001;46(7):19-22. [View abstract](#). **89864**
- Cho JY, Kim AR, Yoo ES, Baik KU, Park MH. Ginsenosides from Panax ginseng differentially regulate lymphocyte proliferation. *Planta Med* 2002;68(6):497-500. [View abstract](#).

- Baravalle C, Dallard BE, Ortega HH, Neder VE, Canavesio VR, Calvinho LF. Effect of Panax ginseng on cytokine expression in bovine mammary glands at drying off. *Vet Immunol Immunopathol* 2010;138(3):224-30. [View abstract](#). **89865**
- Sakakibara K, Shibata Y, Higashi T, Sanada S, Shoji J. Effect of ginseng saponins on cholesterol metabolism. I. The level and the synthesis of serum and liver cholesterol in rats treated with ginsenosides. *Chem Pharm Bull (Tokyo)* 1975;23(5):1009-16. [View abstract](#). **89866**
- Kwak YS, Kyung JS, Kim JS, Cho JY, Rhee MH. Anti-hyperlipidemic effects of red ginseng acidic polysaccharide from Korean red ginseng. *Biol Pharm Bull* 2010;33(3):468-72. [View abstract](#). **89867**
- Tu LH, Ma J, Liu HP, Wang RR, Luo J. The neuroprotective effects of ginsenosides on calcineurin activity and tau phosphorylation in SY5Y cells. *Cell Mol Neurobiol* 2009;29(8):1257-64. [View abstract](#). **89868**
- Ye R, Li N, Han J, Kong X, Cao R, Rao Z, Zhao G. Neuroprotective effects of ginsenoside Rd against oxygen-glucose deprivation in cultured hippocampal neurons. *Neurosci Res* 2009;64(3):306-10. [View abstract](#). **89869**
- Liang W, Ge S, Yang L, Yang M, Ye Z, Yan M, Du J, Luo Z. Ginsenosides Rb1 and Rg1 promote proliferation and expression of neurotrophic factors in primary Schwann cell cultures. *Brain Res* 2010;1357:19-25. [View abstract](#). **89870**
- Wu J, Jeong HK, Bulin SE, Kwon SW, Park JH, Bezprozvanny I. Ginsenosides protect striatal neurons in a cellular model of Huntington's disease. *J Neurosci Res* 2009;87(8):1904-12. [View abstract](#). **89871**
- Ahn JY, Kim MH, Lim MJ, Park S, Lee SL, Yun YS, Song JY. The inhibitory effect of ginsan on TGF- $\beta$  mediated fibrotic process. *J Cell Physiol* 2011;226(5):1241-7. [View abstract](#). **89872**
- Chen X, Lee TJ. Ginsenosides-induced nitric oxide-mediated relaxation of the rabbit corpus cavernosum. *Br J Pharmacol* 1995;115(1):15-8. [View abstract](#). **89873**
- Kim HJ, Woo DS, Lee G, Kim JJ. The relaxation effects of ginseng saponin in rabbit corporal smooth muscle: is it a nitric oxide donor? *Br J Urol* 1998;82(5):744-8. [View abstract](#). **89874**
- Wang X, Chu S, Qian T, Chen J, Zhang J. Ginsenoside Rg1 improves male copulatory behavior via nitric oxide/cyclic guanosine monophosphate pathway. *J Sex Med* 2010;7(2 Pt 1):743-50. [View abstract](#). **89875**
- Yang WM, Park SY, Kim HM, Park EH, Park SK, Chang MS. Effects of Panax ginseng on glial cell-derived neurotrophic factor (GDNF) expression and spermatogenesis in rats. *Phytother Res* 2011;25(2):308-11. [View abstract](#). **89876**
- Park JS, Hwang SY, Lee WS, Yu KW, Paek KY, Hwang BY, Han K. The therapeutic effect of tissue cultured root of wild Panax ginseng C.A. Mayer on spermatogenetic disorder. *Arch Pharm Res* 2006;29(9):800-7. [View abstract](#). **89877**
- Kang TH, Park HM, Kim YB, Kim H, Kim N, Do JH, Kang C, Cho Y, Kim SY. Effects of red ginseng extract on UVB irradiation-induced skin aging in hairless mice. *J Ethnopharmacol* 2009;123(3):446-51. [View abstract](#). **89878**
- Kim H, Oh I, Park KH, Kim NM, Do JH, Cho Y. Stimulatory effect of dietary red ginseng on epidermal hydration and ceramide levels in ultraviolet-irradiated hairless mice. *J Med Food* 2009;12(4):746-54. [View abstract](#). **89879**
- 89880**

Kim HS, Kim DH, Kim BK, Yoon SK, Kim MH, Lee JY, Kim HO, Park YM. Effects of topically applied Korean red ginseng and its genuine constituents on atopic dermatitis-like skin lesions in NC/Nga mice. *Int Immunopharmacol* 2011;11(2):280-5. [View abstract](#).

**89881**

Lee JH, Cho SH. Korean red ginseng extract ameliorates skin lesions in NC/Nga mice: an atopic dermatitis model. *J Ethnopharmacol* 2011;133(2):810-7. [View abstract](#).

**89882**

Jovanovski E, Jenkins A, Dias AG, Peeva V, Sievenpiper J, Arnason JT, Rahelic D, Josse RG, Vuksan V. Effects of Korean red ginseng (*Panax ginseng* C.A. Mayer) and its isolated ginsenosides and polysaccharides on arterial stiffness in healthy individuals. *Am J Hypertens* 2010;23(5):469-72. [View abstract](#).

**89883**

Yi XQ, Li T, Wang JR, Wong VK, Luo P, Wong IY, Jiang ZH, Liu L, Zhou H. Total ginsenosides increase coronary perfusion flow in isolated rat hearts through activation of PI3K/Akt-eNOS signaling. *Phytomedicine* 2010;17(13):1006-15. [View abstract](#).

**89884**

Lee J, Lee E, Kim D, Lee J, Yoo J, Koh B. Studies on absorption, distribution and metabolism of ginseng in humans after oral administration. *J Ethnopharmacol* 2009;122(1):143-8. [View abstract](#).

**89885**

Liu YM, Yang L, Zeng X, Deng YH, Feng Y, Liang WX. [Pharmacokinetics of ginsenosides Rg1 and Re in Shenmai injection]. *Yao Xue Xue Bao* 2005;40(4):365-8. [View abstract](#).